



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H090575-C

**Mode:** Highway

**Status:** Submitted

## NC-54

**From/Cross Street:** Perimeter Park Drive

**Specific Improvement Type:** 1 - Widen Existing Roadway

**To:** NC 540

**Project Category:** Regional Impact

**Length:** 1.24

**TIP#:** FS-1005B

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$11,801,000

### Description:

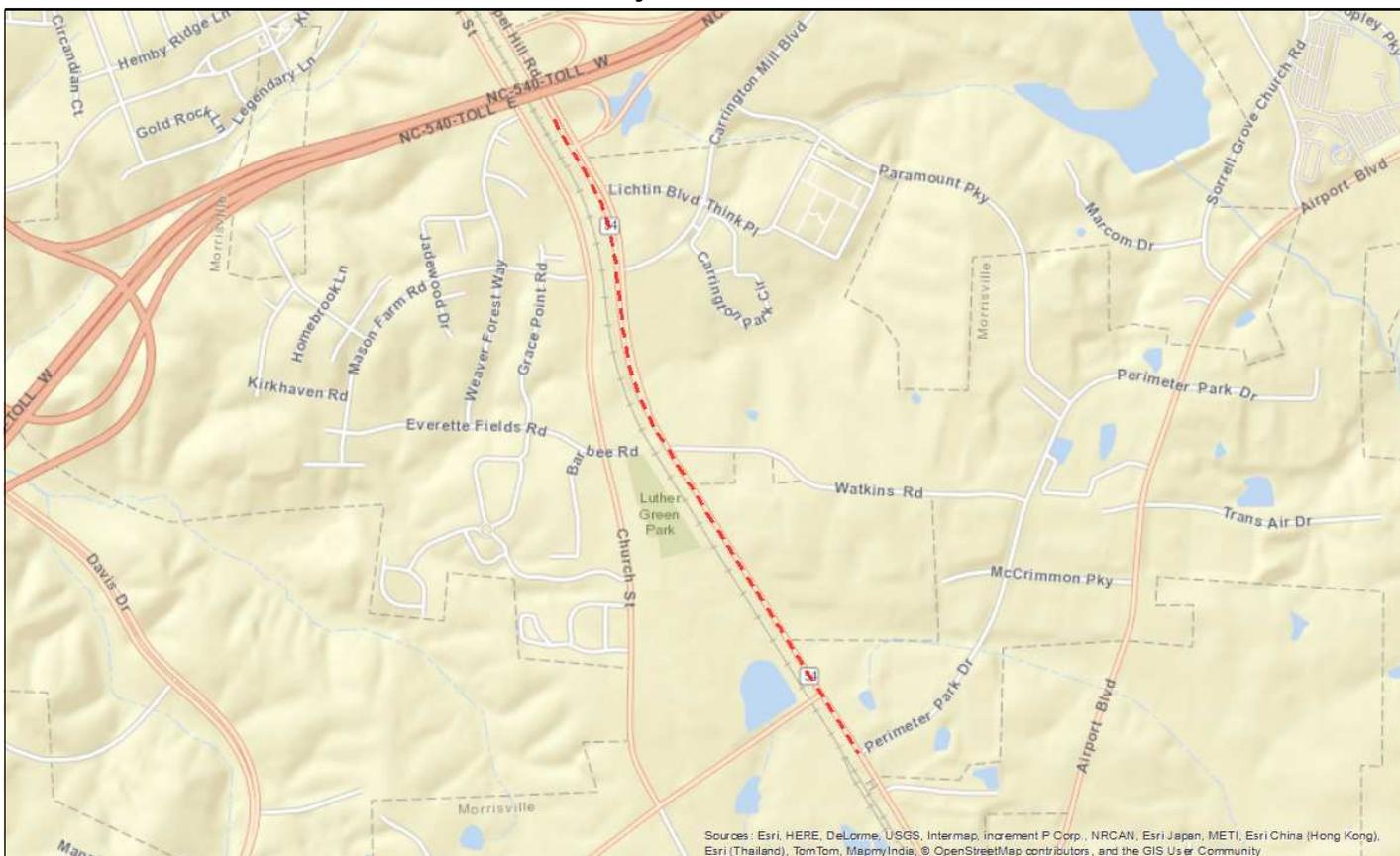
Widen from 2 to 6 Lanes.

**Division(s):** Division 5

**County(s):** WAKE

**MPOS(s)/RPO(s):** Capital Area MPO

### Project Location



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

**Statewide Mobility Total Score: 0**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
	N/A	N/A
<b>Totals: Weight: 0% Weighted Score: 0</b>		

**Regional Impact Total Score: 62.81**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (25%) 8.74	Percent: 15% Points: 94	Percent: 15% Points: 94
Congestion (V/C) (25%) 75.55		
Safety (10%) 71.34		
Accessibility / Connectivity (10%) 64.00		
<b>Totals: Weight: 70% Weighted Score: 34.61</b>		

**Division Needs Total Score: 23.99**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%) 71.34	Percent: 25% Points: 0	Percent: 25% Points: 0
Congestion (V/C) (20%) 75.55		
[Travel Time] Benefit/Cost (20%) 8.74		
<b>Totals: Weight: 50% Weighted Score: 23.99</b>		

**Project Data \*****Existing Conditions**

Existing Cross-Section:	
Speed Limit:	45
Length (miles):	1.24
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	18000
Capacity:	15800
Volume/Capacity Ratio:	1.14
% Autos:	94%
% Trucks:	6%
Truck Volume:	1000
Crash Density:	73.21
Crash Severity:	54.3
Critical Crash Rate:	86.54
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	49
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	89
Actual Congested Speed:	33.81
Travel Time Index:	1.33

**Project Benefits**

Project Cross-Section:	6E - 6 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	1.24
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	4581620.34
Travel Time Savings for 30 Years (Autos):	4327085.9
Travel Time Savings for 30 Years (Trucks):	254534.44
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 5

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

**Project Ownership**

**Division**

Division	Percent	Regional Impact	Division Needs
Division 5	100%	94	0
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>94</b>	<b>0</b>

**MPO/RPO**

MPO/RPO	Percent	Regional Impact	Division Needs
Capital Area MPO	100%	94	0
	0%	0	0
	0%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>94</b>	<b>0</b>

**Project Cost and Source**

Construction Cost:	\$9,601,000	Cost Estimation Tool
Right-of-Way Cost:	\$1,964,000	Cost Estimation Tool
Utilities Cost:	\$236,000	Cost Estimation Tool
Total Project Cost:	\$11,801,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$11,801,000</b>	